

Appln. No. 10/760,057
Filing Date: January 16, 2004
Supp. Prel. Amdt. dated May 15, 2006

AMENDMENTS TO THE CLAIMS

Listing of Claims:

Claims 1-21 (Canceled).

Claim 22. (Previously Presented) A packet voice processing circuit comprising:
an interface for receiving voice data packets via a packet network, each of the voice data packets comprising digital voice data and a group identifier;
a queue for storing the digital voice data;
a processor for detecting a change in the group identifier; and
the processor changing the processing of digital voice data, if a change in group identifier is detected.
the processor continuing prior processing of digital voice data, otherwise.

Claim 23. (Previously Presented) The circuit of claim 22 wherein the packet network is a wired network.

Claim 24. (Previously Presented) The circuit of claim 23 wherein the wired network comprises an Ethernet compatible network.

Claim 25. (Previously Presented) The circuit of claim 22 wherein the packet network is a wireless network.

Claim 26. (Previously Presented) The circuit of claim 25 wherein the wireless network communicates at approximately 2.4 GHz.

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Claim 27. (Previously Presented) The circuit of claim 25 wherein the wireless network communicates using a frequency hopping spread spectrum technique.

Claim 28. (Previously Presented) The circuit of claim 25 wherein the wireless network communicates using a direct sequence spread spectrum technique.

Claim 29. (Previously Presented) The circuit of claim 22 wherein the packet network uses an Internet protocol (IP).

Claim 30. (Previously Presented) The circuit of claim 29 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 31. (Previously Presented) The circuit of claim 22 wherein changing the processing of digital voice data comprises delaying the conversion of queued digital voice data by an adjustable queuing time.

Claim 32. (Previously Presented) The circuit of claim 31 wherein the adjustable queuing time is a function of a propagation delay of the packet network.

Claim 33. (Previously Presented) The circuit of claim 31 wherein the adjustable queuing time is initialized to a predefined value.

Claim 34. (Previously Presented) The circuit of claim 33 wherein the predefined value is approximately 200 milliseconds.

Claim 35. (Previously Presented) The circuit of claim 31 wherein the adjustable queuing time is determined using a test packet sent over the packet network.

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Claim 36. (Previously Presented) The circuit of claim 35 wherein the test packet is sent prior to establishment of voice communication.

Claim 37. (Previously Presented) The circuit of claim 35 wherein the test packet is interspersed with digital voice data packets.

Claim 38. (Previously Presented) The circuit of claim 22 wherein the group identifier is a pseudo random number.

Claim 39. (Previously Presented) The circuit of claim 22 further comprising a converter for converting digital voice data to an analog voice stream.

Claim 40. (Previously Presented) A packet voice processing circuit comprising:
a processor for processing digital voice data to detect a lack of voice activity for a minimum period of time;
an interface for transmitting voice data packets via a packet network, each of the voice data packets comprising digital voice data and a group identifier;
the processor changing the group identifier if a lack of voice activity for a minimum period of time is detected; and
the processor leaving the group identifier unchanged, otherwise.

Claim 41. (Previously Presented) The circuit of claim 40 wherein the packet network is a wired network.

Claim 42. (Previously Presented) The circuit of claim 41 wherein the wired network comprises an Ethernet compatible network.

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Claim 43. (Previously Presented) The circuit of claim 40 wherein the packet network is a wireless network.

Claim 44. (Previously Presented) The circuit of claim 43 wherein the wireless network communicates at approximately 2.4 GHz.

Claim 45. (Previously Presented) The circuit of claim 43 wherein the wireless network communicates using a frequency hopping spread spectrum technique.

Claim 46. (Previously Presented) The circuit of claim 43 wherein the wireless network communicates using a direct sequence spread spectrum technique.

Claim 47. (Previously Presented) The circuit of claim 40 wherein the packet network uses an Internet protocol (IP).

Claim 48. (Previously Presented) The circuit of claim 47 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 49. (Previously Presented) The circuit of claim 40 wherein the minimum period of time is approximately 1 (one) second.

Claim 50. (Previously Presented) The circuit of claim 40 wherein the group identifier is a pseudo-random number.

Claim 51. (Previously Presented) The circuit of claim 40 further comprising a converter for converting an analog voice stream to digital voice data.

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Claim 52. (Previously Presented) A method of processing voice for communication over a packet network, the method comprising:

- receiving digital voice data packets communicated via the packet network, each of the digital voice data packets comprising digital voice data and a group identifier;
- queuing the digital voice data from the received digital voice data packets;
- processing digital voice data to produce a voice stream;
- monitoring the received digital voice data packets to detect a change in group identifier;
- changing the processing of digital voice data, if a change in group identifier is detected;

and

continuing prior processing of digital voice data, otherwise.

Claim 53. (Previously Presented) The method of claim 52 wherein the packet network is a wireless network.

Claim 54. (Previously Presented) The method of claim 53 wherein the wireless network communicates at approximately 2.4 GHz.

Claim 55. (Previously Presented) The method of claim 53 wherein the wireless network communicates using a frequency hopping spread spectrum technique.

Claim 56. (Previously Presented) The method of claim 53 wherein the wireless network communicates using a direct sequence spread spectrum technique.

Claim 57. (Previously Presented) The method of claim 52 wherein the packet network uses an Internet protocol (IP).

Claim 58. (Previously Presented) The method of claim 57 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP).

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Claim 59. (Previously Presented) The method of claim 52 wherein changing the processing of the digital voice data comprises delaying for an adjustable queuing time the processing of queued digital voice data to a voice stream.

Claim 60. (Previously Presented) The method of claim 59 wherein the adjustable queuing time is a function of a propagation delay of the packet network.

Claim 61. (Previously Presented) The method of claim 59 wherein the adjustable queuing time is initialized to a predefined value.

Claim 62. (Previously Presented) The method of claim 61 wherein the predefined value is approximately 200 milliseconds.

Claim 63. (Previously Presented) The method of claim 59 wherein the adjustable queuing time is determined using a test packet sent over the packet network.

Claim 64. (Previously Presented) The method of claim 63 wherein the test packet is sent prior to establishment of voice communication.

Claim 65. (Previously Presented) The method of claim 63 wherein the test packet is interspersed with digital voice data packets.

Claim 66. (Previously Presented) The method of claim 52 wherein the group identifier is a pseudo random number.

Claim 67. (Previously Presented) The method of claim 52 wherein the voice stream comprises a digital representation of voice information.

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Claim 68. (Previously Presented) A method of processing voice for communication over a packet network, the method comprising:

monitoring digital voice data for a lack of voice activity for a minimum period of time;

assigning a different group identifier to the digital voice data following a lack of voice for the minimum period of time;

packetizing the digital voice data and the group identifier to produce digital voice data packets; and

transmitting the digital voice data packets via the packet network.

Claim 69. (Previously Presented) The method of claim 67 further comprising:

receiving a voice stream; and

digitizing the voice stream to provide digital voice data;

Claim 70. (Previously Presented) The method of claim 68 wherein the packet network is a wireless network.

Claim 71. (Previously Presented) The method of claim 70 wherein the wireless network communicates at approximately 2.4 GHz.

Claim 72. (Previously Presented) The method of claim 70 wherein the wireless network communicates using a frequency hopping spread spectrum technique.

Claim 73. (Previously Presented) The method of claim 70 wherein the wireless network communicates using a direct sequence spread spectrum technique.

Claim 74. (Previously Presented) The method of claim 68 wherein the packet network uses an Internet protocol (IP).

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Claim 75. (Previously Presented) The method of claim 74 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP).

Claim 76. (Previously Presented) The method of claim 68 wherein the minimum period of time is approximately one (1) second.

Claim 77. (Previously Presented) The method of claim 68 wherein the group identifier is a pseudo-random number.

Claim 78. (Previously Presented) The method of claim 68 further comprising compressing the digital voice data.

Claim 79. (Previously Presented) A method of processing voice for communication over a packet network, the method comprising:

monitoring digital voice data to detect a lack of speech for a minimum period of time;
processing the digital voice data and an identifier to produce digital voice packets for transmission via the packet network;

changing the processing of digital voice data and the identifier, if a lack of speech for a minimum period of time is detected; and

continuing prior processing of digital voice data and the identifier, otherwise.

Claim 80. (Previously Presented) The method of claim 79 wherein monitoring comprises identifying at least one difference between speech and background noise.

Claim 81. (Previously Presented) The method of claim 79 wherein the minimum period of time is approximately one (1) second.

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Claim 82. (Previously Presented) The method of claim 79 further comprising:
receiving an analog voice stream; and
digitizing the analog voice stream to produce digital voice data.

Claim 83. (Previously Presented) The method of claim 78 wherein the packet network is a wireless network.

Claim 84. (Previously Presented) The method of claim 83 wherein the wireless network communicates at a frequency of approximately 2.4 gigahertz.

Claim 85. (Previously Presented) The method of claim 83 wherein the wireless network communicates using a frequency hopping spread spectrum technique.

Claim 86. (Previously Presented) The method of claim 83 wherein the wireless network communicates using a direct sequence spread spectrum technique.

Claim 87. (Previously Presented) The method of claim 79 wherein the packet network comprises a wired network.

Claim 88. (Previously Presented) The method of claim 79 wherein the packet network comprises an Ethernet compatible network.

Claim 89. (Previously Presented) The method of claim 79 wherein the packet network uses an Internet protocol (IP).

Claim 90. (Previously Presented) The method of claim 89 wherein the Internet protocol is the transmission control protocol (TCP)/Internet protocol (IP).

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Claim 91. (Previously Presented) The method of claim 79 wherein the identifier is a group identifier.

Claim 92. (Previously Presented) The method of claim 91 wherein the group identifier is a pseudo-random number.

Claim 93. (Previously Presented) The method of claim 91 wherein changing the processing of digital voice data and the identifier comprises changing the group identifier.